

## "SPECIAL NOTICE TO MRAC MEMBERS"

### \*\*\* M.R.A.C. A N N U A L C O N T E S T C U P A W A R D \*\*\*

On March 25th, 1959, the Board of Directors of this club voted unanimously to set up an "Annual Contest Cup Award". This award was set up to appeal to those members who are active contest-wise, but who feel they are not active enough in other categories to qualify for the Annual MRAC Achievement Award. It is therefore a separate contest.

Announcement of this board action was read at the 1st regular club meeting in May, 1959 and a special notice was included in the Feb., 1960 issue of Hamateur Chatter reminding our members to submit their entry for this award as well as your Achievement Award entry and stipulating that the deadline for submitting your entries had been extended to Feb. 15th, 1960.

Now, because it is felt insufficient publicity was given to this activity by the club officers (past and present), the board of Directors at their meeting of March 24, 1960, again voted to extend the deadline for submitting 1959 entries to Apr. 21st, 1960 and stipulated the announcement of this activity and rules be published in this issue of Hamateur Chatter, so that members active in last years contests may still have a chance to submit an entry.

The rules for the MRAC Annual Contest Cup Award are as follows.

- 1.- The contest period to start on Jan.1st and end on Dec.31st of each year.
- 2.- The Award will be given only to a member of MRAC and cannot be awarded two years in succession to the same amateur.
- 3.- The contests on which the award points are based are: ARRL-DX, ARRL-SS, ARRL-VHF, W-VE, YL-OM, and CQ-DX. (These are all contests of a National and International scope.)
- 4.- The points you may accumulate in each of these contests will be determined on how you place on the basis of club member competition and the same system of accumulating points will be used as are used in the MRAC Achievement Award rules, ( those portions pertaining to contests.) For example, if you should win 1st place in the annual DX contest (cw), you get 500 points, plus a bonus of 100 points for submitting your log to ARRL for a total of 600 points. You could also win 1st place (fone) and take another 600 points for a total of 1200 points in this particular contest. (You will be allowed your total MRAC points won and will not be restricted to the 1000 points per activity as stipulated in the Achievement Award rules.)  
For the CQ-DX contest use the same system of MRAC points as in the ARRL-DX contest, i.e., 1st place, 500 points to 5th place 100 points (cw & fone), with 100 bonus points for submitting each log.

Regardless of how many of the above contests you took part in during 1959, we would like to see more active members submitting entries. These awards are set up for your pleasure and as an incentive to good operating under competitive conditions.

Submit your 1959 MRAC Annual Contest Cup Award entry to W9MOT, Ken Eggert, chairman, Awards committee. \*\*\*\*\* W9RKP, 2nd VP.

# EMERGENCY NETS

M.R.A.C. is backing a plan submitted by Dick Oberholtzer, W9ZPV, to build up a group who will participate in any activity of an emergency nature. The group should be large enough so that enough operators can always be had to cover assignments. All frequencies will be used and likewise each operator will use his own equipment. In this way every Ham in this area is eligible for participation, even if he has only a single frequency transmitter.

A committee has been formed to study emergency operation, make assignments and put the plan into effect as soon as possible. The committee consists of the following members;

Dick Oberholtzer, W9ZPV, (SU 2-9153) Chairman  
 Fred Zolin, W9ONY, (WO 2-0935) Mobile Group  
 Fred Borchardt, W9DYG, (FR 2-7422) Message & Organizing  
 Travis Baird, W9VQD, (FL 2-9642) Teletype Co-ordinating

The above men have agreed to help formulate the program and feel many more are needed to put it in effect. They will appreciate it very much if interested parties will call the committee and advise them what you wou would like to do.

Mobile operation becomes very important when emergencies arise in areas where no communication is available or when commercial power has failed, (airplane disaster; train wreck; crowded highways, etc ). The fixed stations will alert themselves in handling important messages and see that they get to their destination the fastest way.

The system is portrayed by a WHEEL, its HUB being the NET CONTROL 2 meter RTTY, and this is how it works:

As soon as word is heard of an emergency in the offing, Net Control will get the information from State Police, Red Cross, Sheriff's Dept. (all have expressed great interest) or any other source available. The information will then be put on RTTY to all Frequency Net Controls (FNC). They in turn will relay the information to their nets. YOU ARE THEIR NETS. Check in to any of the nets you can. Mobiles will check into the net from home and wait for advise.

## ASSIMILATED EMERGENCY DESCRIPTION:

A flood---State POLICE can use 10 mobiles for personal messages. Red Cross 4 mobiles. (FNC) assigns and tells them who to report to. A mobile sends in a message for Fort Wayne, Ind. FNC will put it on RTTY and all FNC's will read. The frequency most apt to get into Fort Wayne will report to NET CONTROL. NC will assign message. A return message will follow the same procedure.

DO YOU THINK IT WILL WORK?-----NOT WITHOUT YOUR SUPPORT!

We do not plan on regular net operation except for training and working out bugs. The frequency of each net will be assigned as soon as final arrangements are made. Open spaces in the WHEEL are for when additional frequencies are requested.

All HAMS are requested to join and support this program. It is not necessary to belong to a radio club to participate. Just be a HAM---Live up to your obligation. Remember PICON.

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Customer: "Have you any four-volt two-watt bulbs?"  
 Clerk: "For what?"  
 Customer: "No, Two."  
 Clerk: "To what?"  
 Customer: "Yeah."

# ARRL BULLETINS

## WORKED ALL STATES

Attention is called to those applying for W.A.S. certificate that as of March 15, 1960 confirmations are needed from all fifty states, which includes Alaska and Hawaii.

## THIRD PARTY TRAFFIC

Effective March 17, 1960 amateurs of Honduras and the United States will be permitted to exchange messages on behalf of third parties. Other countries with which the U.S. has similar agreements are: Canada, Chile, Costa Rica, Cuba, Ecuador, Haiti, Liberia, Mexico, Nicaragua, Panama, Peru and Venezuela.

## CITIZENS BAND

Effective March 15, 1960, the FCC has amended its rules for the Citizens Radio Service. This is of interest to amateurs, for the latest Commission action further differentiates the Amateur Service from the Citizens Service, the Commission further stating that it had no intentions to create a service paralleling the Amateur Service. The FCC has defined Citizens Radio as basically a service for intercommunication between units of a single station and restricted to useful messages related to the business of personal affairs of the licensee. The practice of calling test for the purpose of inviting DX contacts is in violation of the rules. Communication designed to raise random or unknown stations, such as by calling CQ is prohibited in the Citizens Service.

## HAM'S ON TV

On April 17th the ABC Television Network will present a half hour program, entitled The Ham's Wide World, on the program Johns Hopkins File 7. The program will originate from WJZ TV in Baltimore at 12 noon, E.S.T. (Should be very interesting).

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## LOOK WHO WANTS CALL LETTER LICENSE PLATES

At the annual meeting of the presidents of the State Broadcasters Association held last month in Washington by the NAB, what do you think was one of the subjects on which the most time and talk was spent?---- Call letter license plates!----WISN-WTMJ- WMLP-WMLL-WOKY, etc. (Any HAM'S lobbying for it)???

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## RADIO MECHANIC WANTED BY MILWAUKEE POLICE DEPT.

The Milwaukee Police Department has recently announced an opening in the Radio Section of the Communications Bureau and is seeking applicants. This position offers a splendid opportunity for those who are qualified. For application blanks or further information address the Milwaukee Fire and Police Commission, Safety Bldg., 935 N. 8th St., Milwaukee 3, Wis.

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WONDER why they put so many holes in Swiss cheese when it's really Limberger that needs the ventilation. (Kinda smells)

IN MEMORIAM

GEORGE C BOWEN, W9DWT, one of MRAC's old timers, passed away at Columbia Hospital, March 28th, 1960.

George was interested in HAM radio ever since 1912 and in the early days had a 7½ watt xtal controlled xmr and worked stations within a radius of 1,000 miles and his copying speed was over 20 rpm. He was active in DX at this time and in later years he also operated mobile.

From 1941 to 1945 he was telegraph operator for Morris Fox Co., and his copying speed on Morse was 40 rpm. His present position was with Eache & Co., as representative and he was there 14 years.

George devoted many years of service to the MRAC. In 1940 he was commercial chairman of the Wisconsin ARRL convention. He served as Vice President of our club in 1947-1948 and during the National ARRL convention in Milwaukee 1948-1949 he served as club President. He was exhibit manager at the convention. He was also treasurer of the club during the 1949-1950 season and served as a club director for 4 years.

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NEW ADDRESS

Clyde Richelieu, ex W9ARE, now W9JS, MRAC member and past Central Division Director is now located at 1916 E. Evergreen St., Wheaton, Ill. Getting closer to the old home, maybe Milwaukee next??

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WISCONSIN COUNCIL OF RADIO CLUBS

A Wisconsin Section Meeting was held at Fond du Lac, Feb. 25th in the Public Service Bldg., for the purpose of reactivating the Wis. Council which was dormant the past few years. Jack Doyle, W9GFI, presided over the meeting. Heavy snowfall throughout the state prevented many of the representatives being present and only six clubs answered the rool call.

Steve Smith of Fondy was elected temporary recording secretary. The by-laws and constitution of the old council were read and it was proposed that the dues be reduced from \$5.00 to \$2.00 annually. This will receive further action at the Wausau Hamfest, May 21st. W9GFI passed around publications of other state councils, such as those published by the Indiana Radio Club Council, the Hamfesters of Ill., and the WIN News by our SCM W9KQB. Discussions were held on what our club council could offer member clubs, such as a statewide paper, shoulder patches and certificates to be given to member clubs.

Smith was asked to publicize the council by sending notices to every known club in the state, telling them to send 2 representatives to Wausau and asking them to make up a possible slate of officers for the council to be elected at the Wausau meeting. The meeting was adjourned at 11 PM and after the Fondy gang took the Green Bay and Milwaukee reps to a local "beanery" for coffee-- all went sliding their merry ways home. Milwaukee representatives are W9CUW, chairman MRAC and W9DYG, co-chairman, MRAC.

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" A woman will stop to look in a mirror anytime, except when she is pulling out of a parking place.

# MRAC DX COMMITTEE REPORT (by K9CJK)

Here we are again, that time of year when the DX hounds burn the midnight oil, go without proper sleep and eat only when it can be done without passing up a RARE ONE. What am I talking about? The annual ARRL DX contest, of course. As this is being written the contest has just passed the third quarter mark, with just the last part of the CW section awaiting its completion.

From the reports I have received and my own observations, conditions have not been RED HOT. But that's the way the crackers crumble and the sunspot cycle being where it is, I guess we should get used to it, for the worst is yet to come.

Even with these poor conditions prevailing, the GANG still continues to pile up respectful scores and even work some new ones. Some of the new countries worked thus far in the contest are as follows:

K9ENB: TG5HC, HP1AC, ST2AR and VP1JH  
W9UNJ: KS4AZ, VP3YG, FA2FV, ZS5JY/ZS9, YN4AB, VP5AB and EA8CG  
W9KQD: VQ2RB and TG5HC  
W9LVR: FG7XF  
W9HR: HK0AI, VS6AE and ST2AR  
W9EQP: EA9CP, UH8KAA, UL7HC and KS4AZ  
K91UF: UH8KAA, UL7HC and KS4AZ  
W9OMY: YN4CB, UQ2GW, TG5HC, VP1JH, VP7NT, VP5AB, HK0AI, HK7FZ, FG7XF, VP3YG, VP2DX and CE3AG  
K9CJK: ST2AR and ZD2JKO

Well, now take a look at the above, you say band conditions were poor? What would these guys do if conditions were good? It's hard to say, but rest assured the boys worked hard and long to work these new ones.

FRED BORCHERDT, W9DYG reports hearing 12 different countries on 80 meters CW. Maybe the gang was on the wrong bands and didn't know it.

It's not over yet, we still have the last part of the CW section to go, up to now it might have been the calm before the storm,--let's hope so.

As anyone knows, you can't continually work DX stations without getting a few QSL cards now and then, so let's take a look at some of the wallpaper the gang has received lately:

K9ENB: VQ8AQ "This is garden variety?"  
W9GIL: FB8CD and VS4FC  
W9UNJ: ZM7DA, ZB1FA, VR2DK, GD3UB, ZK1AK, OQ5IG and ZS7M  
W9KQD: VE6AAE/SU  
W9QYW: ZS6IF/ZS8  
W9RH: VP2SL, EA9AP, ZS3AH, HK0AI, CP5EL, VP2KD and UA3EG  
W9LJU: VP9OC, ZS6IF/ZS8, ZK2AD, UH8KBA, VQ2IE, LA3SG/P, PJ2ME.  
W9OMY: HK0AI, VP7NT, VP3YG, HB9WE, VQ4HE, EL4A, PJ2AB, HP1JF, EA1BC and CE3AG  
W9RKP: ZM7DA and VU2ANI

(cont.)

\*\*\* DX N O T E S \*\*\*

DL4ADK ex W9ZIE is on 10 meter phone at 29.3 each morning, looking for Milwaukee contacts via W9KQD/M.

ANYONE NEEDING ZS7, look for Z37L on 10 meters CW, approximately frequency 28.1 kc, operates on Mondays and Tuesdays for sure, possibly other days - via W9KQD/M.

BETTER CIRCLE the date May 7th, 1960, this is the day of the annual RUSEAN DX CONTEST. More on this in a future issue of QST.

THEY SAID it couldn't be done, but nothing is impossible now days. Charlie Porch, K9ENB has built a modulator and is now on phone. It works too, he has worked 3 DX stations already.

DOUG PAVEK W9FDX, is now in the process of rebuilding his rig. He must have missed some rare ones, and is finally going to high power.

THE NEWEST MEMBERS of the DX committee are Bill Brossman, W9EQP and his son Bill, Jr., K9IUF. The Brossmans had a very pleasant surprise the other day when the Rev. Harold Auler, HR2HA, who was visiting in Milwaukee, payed them a visit at their home. They had a real enjoyable EYEBALL QSO.

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MICROPHONE HOLDS PROMISE  
(CQ Club Bulletin)

Bell Labs have announced a new piezoresistive solid-state device that has interesting properties as a microphone. Compared with the old stand-by, the carbon microphone, it requires but one-fiftieth the power and one-tenth the current to produce a given value of voice-frequency current from a standardized amount of accoustical power. Sounds like a natural for mobile use, dosen't it?

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W9VBZ HEADS TVI COMMITTEE

If you get involved in any TVI complaints you'll probably be contacting Ed Bucholz, who is an old hand at this work, for advice and help. He has dealt directly with F.C.C. many times and closed many cases satisfactorily. Congratulations, Ed.

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"One of the things that doesn't turn out as it should is--  
the car ahead."

\*\*\*\*\*

QUITE A TRADE

"Look what I got for my wife" exclaimed Jones, pointing to a new convertible.  
"Lucky dog", his friend responded, "Where did you make a trade like that?"

# 10-METER PHONE CONTEST

The 10-meter phone contest Feb. 10th resulted in a bang-up turn-out --- don't know if this was on account of the heavy snowy night, or if the Hams are getting more "contest-minded"! Looks like this was due to the co-sponsorship of the West-Allis Radio Club --- let's have more like this together.....

There were 50 entries on the air and out of these the highest number of contacts made was 37 which was done by the contest chairman Doug, W9FDX and the runner up was Russ, W9LVR who hooked 33. Only 30 logs were turned in which indicates that some of the boys couldn't find pencils.

The co-chairman of the committee was K9KGC, Ron Gorski, of the WARAC. The log checking committee consisted of, W9VLK, Fred Krause, W9RZD, Joe Ellenbecker and K9GMM, Geo. Brouck.

The following is the scoring:

W9FDX Doug MRAC	37	W9OMY Jack MRAC	23	W9ULA John MRAC	13
W9LVR Russ "	33	K9QET John None	21	K9KCG Ron "	13
K9CJK Jim "	31)tie	K9RTC Scott WARAC	21	W9DYI Frank "	13
K9MTM Jack "	31)	K9IAC John "	19	W9RUQ Jim "	13
K9QYW Ink "	30	W9CSM Ed "	17	W9UNJ Pat "	13
W9VSO Art "	27	K9OQZ Frank "	17	K9GNJ Joe WARAC	13
K9PSU John "	26	W9MOT Ken MRAC	16	W9DGB John MRAC	13
W9WVL Geo "	26	W9RKP Russ "	16	W9DYG Fred "	13
W9DOS Si "	25	K9ENB Chas "	14		
W9ESR Fred "	23	W9NUE Ken WARAC	14		

MOBILE CLASS  
W9KQD Don MRAC 21

SWL - Novice Class  
KN9TTQ Erich MRAC 14 logged

AWARDS WERE MADE AT THE MARCH 3RD MEETING.

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The average man is proof that the average woman can take a joke.

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## F.C.C. NEEDS MEN

(QSA-5, Marin A.R.C. (via CQ Club Bulletin))

The F.C.C. is looking for more radio engineers. Opportunities are open to graduates in engineering, and to persons with some experience in electronics in general. Pay scale varies with the grade you are hired at. If you want more dope and think that you might qualify, write for announcement 112-B, Executive Secretary Board of U. S. Civil Service Examiners, Federal Communication Commission, Washington 25, D. C.

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Men are still dying with their boots on----one of which is holding down the accellerator.



# VARACTOR DIODE USED IN UHF RADIO RECEIVER

Using solid-state devices, the laboratories has developed a radiotelephone receiver operating in the UHF band. The receiver was described by L.G. Schimpf of the Systems Research Department. Speaking at the annual meeting of the Professional Group on Vehicular Communications of the I.R.E. in St. Petersburg, Florida, Mr. Schimpf told how new devices such as the "varactor" diode can be used in a solid-state radio receiver that operates at around 900 MC.

In the receiver, all operations involving amplification, conversion and frequency generation are fulfilled with solid-state devices. A typical operation is multiplying a low-frequency signal to obtain power at a higher frequency for use in the receiver. This is done in three steps. A signal is generated in a crystal-controlled transistor oscillator. Its frequency is then doubled in a transistor doubler and tripled in frequency tripler. It is in this frequency-tripler stage that the special characteristics of the varactor diode are employed to advantage.

The "varactor" or variable-capacitance diode, was developed at Bell Laboratories by A. H. Uhlir, Jr. and A. E. Bakanowski. It consists of a p-n junction whose capacitance varies as a "reverse" voltage across its junction is varied. Thus, if a sine wave is impressed on the diode, the output signal will be very rich in harmonics. For this reason, the varactor diode is a very efficient harmonic generator and can function as a frequency tripler.

The varactor is a versatile device. It has been used extensively as the variable reactance element in parametric amplifiers to provide extremely low-noise amplification at radio frequencies.

(Bell Laboratories Record - February 1960)

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## 10 METER CW CONTEST

On Wednesday evening April 6th, the MRAC held a 10 meter CW Contest, the WARAC cooperating. There were about 19 or 20 stations active, including several mobiles and much fun was had by all. You should have heard that old master of CW, W9MOT giving out the numbers. Oh boy, maybe next time we can get W9GP1 to join in now that he is all steamed up over electronic keyers. Logs for this contest should be sent to W9FDX and awards will be made at the May 5th meeting.

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\* HAM ADS \*

FOR SALE: Valiant XMTR (Factory wired) \$325.00, NC-300 RCUR & SPKR, \$225.00, Hy-Gain 1 KW, 3 EL Tri-Band Beam \$50.00--  
Bob Hetzel, So 1-1174.

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One termite said to the other termite when he saw a Venetian blind, "Look, our bread comes sliced now."



W9GPI REPORTS ON HIS TRIP.

JACK just returned from a combination business and vacation trip and submits the following news items:

The Central Division Convention (ARRL Sponsored) to be held at Indianapolis Sept. 10-11th next, promises to be a real great affair. Indianapolis has it's share of "Old Timers" and enthusiastic "Moderns", with plenty of Electronic activity locally - this city attracts a considerable amount of amateurs to work in its many plants and labs. PAT HUSK, the General Chairman of the convention, ably assisted and guided by an excellent group of people who want to make this affair a wonderful experience for all who attend.

THE HOTEL CLAYPOOL folks have fine facilities for meeting rooms, food, service and they also appreciate the opportunity of serving the amateur groups (Our National Convention at Galveston last June was held in their Galveston Hotel) they have special reduced room rates for this Central Division Convention.

MANY OUTSTANDING exhibits are already "booked" with lectures and presentations being added to make this convention interesting and informative, the full program is expected to be passed around in late June via a Full Central Division mailing.

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HUGH WILSON, (K4TGH) and his family looked particularly well and Hugh passed along, via me, some surprise pictures which I will have at the Club at some future meeting---some of you O.T.'s will really be surprised at what YOU looked like 30 years ago. Hugh lives about one mile north of the Circle, in Hollywood by the Sea (Florida, of course) and between Federal Hwy. and the Ocean, real nice place, good "Ham Shack"--and more active than he ever was up in Milwaukee--he loves company and always has those brown 6L6's cold and frosty, he complains about NO GETTEL'ANNS.

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OUR HONORARY MEMBER Fred Schnell (W4CF ex W9UX) lives at Bradenton along with quite a cosmopolitan amateur group--this gang represents all call areas and about 15 different States---they have enjoyable times together, play some golf and do a lot of "Living in the Past". Fred sends his best to all of our Club membership---and promises to do better with our Braves this winter during their spring training.

BRADENTON is a clean, quiet little city, no night life and IF there were sidewalks they'd have them IN by 9:30 P.M. Fred has a neat "HAM SHACK", complete with electronic keyer (on which I had several hours of instruction, and liked very much) contacted Sherm K9PYY, Vern, W9WIH, Bob, W9THN and Fred, W9VTK, as well as several others whose calls escape me at the moment---all from W4CF.

(cont.)

MET SEVERAL EX-W9's at the Annual Meeting of the CSC (Confederate Signal Corps) at Atlanta, Ga., none from Milwaukee however. Also spent a half-day with Smitty W4AIX at Hendersonville, N.C. He's formerly from Chicago, has attended our Nat'l. Convention and a couple of our QSO Parties. He runs a grand Motel on the main highway, nice to know this if you're down that way. He has a Top Drawer Ham Shack and the key to the place is YOURS, complete with Ice box. Beautiful country that Asheville-Hendersonville area with many points of interest. Smitty is a great host and special discount to 9's.

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THANKS TO ALL the Locals on the many Patches, service was excellent in all respects, I was always glad to "Show-off" our Milwaukee type operators.

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### MOBILE WING LOOKING FOR MEMBERS

A meeting is being arranged for all mobilers in Milwaukee County to organize the group for light drills, emergency work, frequency checks, signal checks. (Also good fellowship). Further information will be mailed out later.

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### M.R.A.C. TRAFFIC NEWS (by W9DYG)

Wisconsin NTS nets---

BEN meets daily 6 P.M. on 3950 kc.

WIN meets daily 7:15 P.M. on 3535 kc.

WSSN meets daily 6:30 P.M. on 3535 kc (Wis. Slow Speed Net)

Our National Traffic System has again broken all previous record both for Dec., and for the year 1959. A total of 44,109 messages were cleared during the past Dec. rush. Wis. oprs. alone cleared 36,201 messages during 1959---with the above three nets clearing 7,806 messages in 1959.

The Wis. section started the new year with 33 EC, 3 PAM, 2 RM, 29 ORS, 4 ODS, 80 ES and 10 OO. That is a decrease of 6 in the appointments dep. More Hams are urged to take part in the National Traffic System Nets, and to apply for the many worthy appointments offered by ARRL, so come on gang, let's see more of you get into the "SWIM".

### MRAC TRAFFIC TOTALS:

#### January

W9DYG 912  
K9DTK 124  
W9VHP 39

#### February

W9DYG 1148  
K9DTK 22  
W9VHP 21

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One shouldn't do two things at the same time; that includes women who put on weight and slacks.

\*\*\* COMING EVENTS AT M.R.A.C. \*\*\*

- April 21---Constructive discussion on club activities & policies, by W9QYW and K9ENB. (Your chance to express your opinions and blow off a little steam.)
- April 28---"The story of DX", on film, courtesy of ARRL.
- May 5---Report of MRAC Nominating Committee. (Elections are coming)
- May 12---Nomination of club officers and directors by members.
- May 19---Election of club officers and directors for the season of 1960-1961. Also, "AUCTION NITE". Bring down your surplus gear (and your pocketbook) and combine a lot of fun with the serious business.
- May 26--- Installation of new club Officers and Directors and the Annual Report of present Officers.

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FIELD DAY

This years Field Day (ARRL) will be held on the weekend of June 25-26. Complete details of this event will appear in June QST, but in the meantime it is not too early to make plans and get your portable gear in working order.

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ANNUAL MRAC PICNIC

The annual club picnic will again be held in Kletsch Park, Area 1 and the date to remember for this relaxing event?? is July 17. Bring the kiddies, a lot of energy and have a barrel of fun.

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MRAC AWARDS

Trophies and certificates of award for the 1959 MRAC ACHIEVEMENT AWARD and the 1959 MRAC ANNUAL CONTEST CUP will be awarded at some club meeting in May. Watch for the exact date on some future notice.

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"GRIST FROM THE MILL"

You may have wondered why this bulletin has been mailed to you without being enclosed in the usual club envelope. It is timesaving, but chiefly an economy move and I figured if we can save the club the cost of printed envelopes, it is well worth while. Then too, I think that our very attractive "Cover Design" will draw more attention than if it is hidden from view. This mailing procedure was discussed at a past Board meeting and the addressing details, etc have been worked out. This same procedure could well be applied to other club mailings such as contest forms, etc.---The Publisher.

SAVE

## PRE-INVENTORY SALE

SAVE

BEFORE MAY 1ST, SAVE UP TO 50% ON ALL AMATEUR EQUIPMENT AND STATION ACCESSORIES WE HAVE IN STOCK. ON MAY 1ST, WE PAY A CITY TAX ON OUR COMPLETE INVENTORY, SO IF YOU REALLY WANT TO DRIVE A BARGAIN, THIS IS THE TIME TO ACT!

NOTE! THE PRICES ON COLLINS 32S-1, 516F-2 and 30S-1 HAVE BEEN RAISED TO \$666, \$115, and \$1556, RESPECTIVELY. HOWEVER, BEFORE MAY 1ST, WE WILL HONOR ALL ORDERS AT THE OLD PRICES: \$590, \$105, and \$1470.

### USED EQUIPMENT PRICE EXPLANATION

The used equipment prices in Column A are the special pre-inventory sale prices. At these special prices, the equipment is sold on an unrec conditioned basis, and for cash. No trade ins can be accepted, and no trial periods are available; however, if you are not satisfied, you may return the equipment for full credit towards any new or reconditioned piece of gear, within 30 days. We want to state that many of these units look brand new, and by selling them on this basis, our customers can realize tremendous savings. We must exchange equipment for cash before May 1st.

The prices in Column B give the equipment a full 30-day guarantee and the convenience of using our 30 day charge account or finance plan, once credit has been established, and trade ins will be accepted. Until May 1st, we will allow more trade in for your used gear on this equipment than we normally would. So drive to Milwaukee or Fond du Lac, and SAVE, during this Sale.

### USED EQUIPMENT AT

#### AMATEUR ELECTRONIC SUPPLY

3832 West Lisbon Avenue, Milwaukee 8, Wisconsin

Hours: Daily - 9 to 5:30, Saturday 9 to 3, Mon. Thu, Fri Evenings 7 to 9 pm.  
(Closed Thursday Evenings in June, July, Aug. Ph: West 3-3262)

		A	B			A	B
<u>Barker &amp; Williamson</u>				<u>Collins, continued</u>			
1500 SSB Generator		\$135	\$150	75A-4 Receiver, Ser. #798		460	495
1100 Transmitter		250	275	75A-4 Receiver, Ser. #2738		500	550
1000 Ohm Low Pass Filter		7	-	Drake 1-A Receiver		190	210
1000 and 515B Xtr & Gen.		390	425	<u>Electro-Voice</u>			
1000 SSB Recv. Adapter		55	70	RME-4300 Recvr. Needs Work		90	145
1000 1000 MT5-A Transmitter		40	50	MC-55 Mobile Converter		25	35
<u>Radio Electronics</u>				HF-1020 Converter		20	30
1000 Rack Mounted		150	170	Eico 425 Scope		30	-
1000 SSB Transmitter		165	185	<u>Elmac</u>			
1000 B Slider		42	49	AF-67 Transmitter	100-	110	125
1000 Final		250	275	PMR-6 Receiver		50	-
<u>Collins</u>				PMR-7 Receiver		95	110
1000, Serial #151		460	500	<u>Globe</u>			
1000, Serial #152		460	500	Scout 65A Transmitter		40	50
1000 Transmitter		150	180	Chief 90A Transmitter		35	44
1000 Receiver		225	260	Screen Modulator		6	-
		239	260	Scout 680 Transmitter		55	70

SAVE

PRE-INVENTORY SPECIALS

SAVE

## AMATEUR ELECTRONIC SUPPLY-MILWAUKEE

		Now
Barker & Williamson LPA-1 Linear and LPS-1 Power Supply(dis)Reg.	\$580	\$480
Eldico SSB-100-M Mobile Transmitter, display unit	400	275
Geloso G-202TR Italian Transmitter, still in sealed cellophane	250	175
Globe 2 and 6 meter Hi Bander Transmitter - display unit	150	115
Globe CB-100 Citizens Band Transceiver - display unit	129	99
Gonset G-50 Six Meter	320	260
Gonset GSB-101 Linear Amplifier - display unit	459	389
Gonset G-33 Receiver - display	90	70
Hallicrafters HT-33A Linear - display	795	645
Hallicrafters S-108 Display Receiver	130	110
Hallicrafters SX-101 Mark IIIA Display Receiver	395	
Hammarlund HT-160 Display Receiver	379	300
Hammarlund HQ-170 Display Receiver	359	290
Johnson Viking Challenger, Display unit	155	130
Morrow MB-6 Mobile Receiver - Display	239	160
P & H Electronics 8020 VFO-Matic, Display VFO	130	70
Roland 5T11 Display Table Model Broadcast Radio -	20	9
Roland 5T16 Display Table Model Radio, still in box	20	12
Hallicrafters 5R70, table radio, Shopworn Display unit	30	9
Steelman 2-1232-1 Portable Phonograph. On Display	50	25
Steelman 602 Stereo Console Phonograph in Mahogany, on display	140	70
Master Mobile MM-820, MM-840, MM-880 Magic Wand Antennas	10	6
Globe 680A Factory Sealed, factory wired and tested transmitters	120	89
National NC-188 Receiver, factory sealed	140	115
CBS Harmony 324 Portable Stereo 4 Speed Automatic Phonograph	99	59
Town and Country TC-27 Citizens Band Transceivers	149	79
RME 4301 Sideband Selector for RME-4350 Receiver	75	50
National NC-300 Converter Cabinet	19	10
National NC-300 Receiver Speaker only	19	10
Morrow RVP-250 DC Supply for Morrow Receiver, factory sealed		20
Palco Bantam 65A Mobile Transmitter, Regular	179	110
Morrow MB-6 Receiver. Factory Sealed (Mobile)	184	149
Morrow MB-565 Transmitter, factory sealed (Mobile)	199	149
Globe Scout 680A Transmitter Kit	99	75
Morrow MVL-50 Mobile Rotary Inductor, less switch. 6Volts		5
Transcon Twin Noise Squelch TNS for Mobile Band. Brand New		5
Ameco CD-1 Conelrad Monitor - Display Model	14	5
Walsco Printed Circuit Repair Kit. Includes Iron, etc.		3
Morrow CB-3 110 Volt AC Citizens Band Transceiver	150	100
ATR 6URHG AC/DC Inverter. 6Volts to 110 Volts AC. New-In Box		45
Hy-Gain AD-1 Conversion Kit for converting tri-band to 10 meters		55
Hy-Gain 10 meter beam in sealed box. Regular	29	15
Hy-Gain 152T63 3 element tri-band beam.	99	75
Hy-Gain 152T-3 3 element tri-band beam	99	60
Gonset 3220 Tri-Band Beam. Carton Opened, Sold on As Is Basis	124	75
Hy-Gain RBX-1 Rotor and Indicator - Opened but all complete - new	199	140
D. Moore Reflecto-Meter		5
Eico 720 transmitter kit. Carton is opened, but all complete	79	60
Eico 720 wired transmitter. In opened carton. damaged slightly	119	80

NOTE! A.E.S WILL BE CLOSED THURSDAY EVES., JUNE-JULY-AUG.

Plan now to attend the big 1960 B.E.N. - F.D.L. Picnic at Beautiful Lakeside Park in Fond du Lac, Wisconsin. Circle July 10th on your calendar today. . .

In June, Mike Coffin, W8ESE, Graduate of Milwaukee School of Engineering, will be working for A.E. S. in Milwaukee, reconditioning our trade ins.

USED EQUIPMENT AT AMATEUR ELECTRONIC SUPPLY, MILWAUKEE, WIS., Continued

	A	B		A	B
<u>Globe, continued</u>			<u>Lakeshore</u>		
DSB-160 Double Sideband	90	100	Bandhopper VFO	69	79
VOX-10 for above	-	15	Phasemaster II	150	180
CB-100 Citizens Band	99	-	Phasemaster Deluxe SSB Exc.	70	89
Phone Patcher	17	19	Signal Splitter	15	25
UM-1 Modulator	30	39	P-40CGG Grounded Grid Linear	90	120
<u>Gonset</u>			P-500 Linear, pair 811's	40	-
GPP-1 Phone Patch	33	35	<u>Knight</u> Space Spanner	10	15
2 Meter Comm. Linear	80	90	<u>Learadio</u> AMT-12 Transmitter	7	-
Comm. I for 6 Meters	115	139	<u>Master Mobile</u> Match Master	5	10
Comm. III for 6 Meters	185	210	<u>Morrow</u>		
G-66 Mobile Receiver	135	150	3BR5 Converter, mobile	20	24
G-66B Mobile Receiver	150	165	MBR-5 Mobile receiver	110	125
3163 Marine Converter	14	19	RVP-250 Power Supply	5	-
152-162 Mc FM Converter	40	49	<u>National</u>		
G-77 Mobile Transmitter	170	195	Older model recvr. wks good	40	-
FM Tuner	55	69	NC-57 Receiver	40	59
GSB-100 SSB Transmitter	340	375	NC-81X Receiver	40	60
G-11 AC Citizens Band	89	-	NC-98 Receiver	100	110
<u>Hallicrafters</u>			NC-109 Receiver	100	120
HT-32 Exciter	460	500	NC-125	100	119
SX-101 Mark III	270	295	NC-173 Receiver	100	119
SR-34AC 6 & 2 transceiv.	275	325	NC-188 Receiver	95	-
SR-34 Universal	350	395	NC-300 6 meter converter	20	24
R-46 Speaker	8	-	NC-300 Receiver	235	260
SX-42 Receiver	100	125	<u>P &amp; H Electronics</u>		
Super Skyrider	40	-	L-400 Linear	90	115
SX-62 Receiver	115	134	600A 6 M. SSB Converter	30	39
SX-71 Receiver	110	129	<u>Palco</u>		
SX-99 Receiver	99	109	Bantam 65 mobile trans.	80	125
SR-75 Transmitter/Recvr.	35	49	DC Supply	8	-
CB-1 Citizens Band	100	-	<u>Pierson</u> KE-93 Receiver	150	160
<u>Hammarlund</u>			<u>Polycom</u> Citiz. Band-Shop worn	110	
HQ-100 Receiver	120	135	<u>Precision</u> 612 Tube/Bttry Test	45	59
HQ-110 Receiver	170	189	<u>RCA</u>		
HQ-129X Receiver	115	129	WF-12A Geiger Counter	40	-
<u>Harvey Wells</u> TBS-50 Mobile	40	50	WR-53A FM Sweep Generator	25	-
<u>Heath</u>			<u>Tecraft</u>		
OM-3 Scope	-	30	CC5-144 2 m. converter	20	24
DX-100 Transmitter	150	170	CC5-50 6 m. converter	22	24
SB-10 SSB Adaptor	75	89	TR-50 6 m. transmitter	25	39
DX-35 converted to 6 M.	30	-	6 meter miniverter	10	15
AR-3 Receiver	23	28	<u>Tapetone</u> XC-50 6 m. conv.	40	49
<u>James</u>			<u>Telrex</u> Large 20 meter beam	20	-
M-1050 Power Supply	15	35	<u>Surplus &amp; Miscellaneous (As Is)</u>		
C-1450 Power Supply	15	-	BC-458 VFO	5	-
<u>Johnson</u>			BC-458 converted for 10 meter	40	69
Viking II Transmitter	145	165	BC-610E Transmitter	195	
Viking II and B&W 51SB	270	330	Model 15 teletype (keybd)	120	
Viking Courier	-	175	Model 15 teletype (no keybd)	100	
Viking Ranger	150	225	Model 26 teletype	50	
Viking Mobile	60	69	BC-1535 transceiver	20	
Viking Mobile VFO	18	22	80 meter SSB VFO, half		
Viking Pacemaker	300	350	converted	10	
Viking Thunderbolt w/t	390	425			
Viking VFO	27	30			

SEE US TODAY - NO REASONABLE OFFER WILL BE TURNED DOWN

# Hallicrafters Visits A E S



Pictured above is Bud Drobish of Hallicrafters with the Industrie's newest and most exciting equipment. Behind Bud, pictured left to right are: Steve Potyandy, W9EAN, Manager, Sandy Wirth, W9BTN, Sales, Mrs. Potyandy, Harold Lund, W8LIM, Sales, and Service, and Terry Sterman, W9DIA.

## FPM-200

The FPM-200 pictured above is an actual working model. Hallicrafters has been working on the first transistorized transceiver for amateur use, and expects to begin delivery this Spring. This unit will be equivalent to the SX-101A and HT-32A.

## HA-1 Keyer

Hallicrafters new "TO" keyer used digital techniques to form self-complete dots and dashes always remains constant. Speeds between 10 and 65 W.P.M. are set by a front panel control. We all had a chance to try this keyer, and will definitely be a very good seller. The price: \$79.95.

## SX-111

We're all excited about this new ham band receiver. It has selectable SSB and many other features of the SX-101A. The stability of this fine receiver is amazing. It can actually be bounced on a tabletop without shifting in frequency on either SSB or CW. We invite you to try this new receiver, priced at only \$250.

## HT-37

Nothing has to be said about this exciter, if you have been listening to the bands lately. It has already proven itself, as well as its "big brother", the HT-32A. Here is a high quality 144 watt SSB exciter with the same fine characteristics of the HT-32A. For \$450, we consider this the very best buy, per dollar value, in SSB exciters.

## AMATEUR ELECTRONIC SUPPLY

3832 WEST LISBON AVENUE

MILWAUKEE 8, WIS. — PHONE West 3-3262

On Highway 41 and 39th — Plenty of Free Parking on 39th

### STORE HOURS:

Mon. thru Fri. 10:00 - 5:30 — Sat. 9:00 - 3:00 — Open Evenings Mon. Thurs. Fri. 7:00 - 9:00

\*NOTE - WE ARE CLOSED THURSDAY EVENINGS IN JUNE, JULY, AUGUST

In Fond du Lac, Wisconsin

SEE TERRY, W9DIA

at

**HARRIS RADIO CORP.**

289 N. MAIN STREET

On Friday Evenings 7-9 and

Saturdays 9-4